RosenView Technical Setup Manual

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1. REQUIREMENTS

The following are used to complete RosenView technical setup.

- PS/2 Style Keyboard
- USB Flashdrive 512
  This is the provided thumbdrive labeled RosenView. For this procedure it needs to be loaded with completed customization files per the RosenView Configuration Software tool and the RosenView Configuration Tool User's Manual P/N 9003384
- 28V Power Supply
- RosenView connected to monitor

➡ NOTICE

This Technical Setup instruction assumes that 28V power is supplied to RosenView, there is access to the RosenView box for keyboard connection, and there is visibility of the monitor connected to RosenView.

If technical setup requirements cannot be met within the aircraft, set up a test bench with a power supply and test monitor for completing Technical Setup procedures.

It is recommended that custom configuration is done prior to completing Technical Setup.

Use the RosenView Software Configuration tool and the RosenView Configuration Tool User's Manual P/N 9003384 for custom configuration; both are supplied on the RosenView Configuration Tool CD that also contains this document.

ARINC	Aeronautical Radio, Inc.
USB	Universal Serial Bus
GPS	Global Positioning System
FMS	Flight Management System
LED	Light Emitting Diode
PS2	Personal System 2 (TM IBM — keyboard specification)
HD	Hard Drive
PC	Personal Computer
RGB	Red, Green, Blue

2. ROSENVIEW CONNECTIONS, INDICATORS AND CONTROLS

The front side of the RosenView unit houses the PS/2 keyboard connection, USB port, Reset/Power button, and LED displays.

The plug in the lower left covers a connector used only by Rosen Aviation technicians.

Figure 1 RosenView front panel view showing connections, LEDs and Reset/Power button

PS/2 Keyboard Connection: Connect a keyboard to this connection to access setup screens and customization screens.

USB Port: Connect the USB Flashdrive (thumbdrive) with customized files to the USB port to import custom configuration files into RosenView, or connect an empty USB Flashdrive to export a RosenView custom configuration to be loaded on to another RosenView or saved for later use (see Section 4.9 on page 15).

Reset/Power: Press and hold the Reset/Power button for about one second and then release it to reset RosenView; the system will cycle power and reboot.

To enter Test Mode, first remove 28V power from RosenView, and then while pressing and holding in the Reset/Power button, turn on the 28V power supply. Continue to hold in the Reset/Power button for a couple seconds and then release. After booting up, Test Mode will run on the monitor.
The GPS and ARINC LEDs blink in unison for the first few minutes when RosenView is in Test Mode.

LED Definitions:

HD (Hard Drive) LED: the HD LED remains off during normal idle operation and blinks during HD access.

PC Power LED: This LED indicates three possible conditions:

i) This LED remains on during normal operation

ii) This LED blinks while the RosenView system is booting up

iii) This LED will remain off if a system error prevents boot up

Temp LED: This LED is the temperature alarm indication. It blinks on and off if the internal system temperature is above or below the allowed parameters. This LED remains off during normal temperature conditions. (The RosenView monitor screen will be blank if the internal system temperature is above or below the allowed parameters.)

Briefing LED: This LED is the briefing active indicator. If a briefing command is given to the unit, the Briefing LED will blink as long as the briefing is active. This LED remains off when no briefing is active.

Control LED: This LED is the control activity indicator. It blinks when any control inputs are active (RS232 serial control, IR control, or RS485). This LED remains off when no control inputs are active.

GPS (Global Positioning System) LED: This LED indicates activity on the RS232 GPS data input; it blinks when receiving data.

ARINC (Aeronautical Radio, Inc) LED: This LED indicates activity on the ARINC 429 data input. The ARINC LED will blink as long as valid data is being received in the ARINC interface IC.

NOTICE **If the GPS and ARINC LEDs are alternately toggling on and off, then no data is being received, or there is a connection/wiring error.**

Connections:

Figure 2 RosenView rear panel view showing Power, Data Input and Monitor RGB connections

NOTICE **Do not cycle power!** When technical Setup is complete, select **Done** in the main RosenView menu (shown in Figure 4) and then remove the keyboard. RosenView will automatically reboot. **RosenView must complete this reboot in order to save changed settings.**

3. GETTING STARTED

RosenView's default settings can be adjusted at the user's/installer's discretion. The following subheadings detail each setting option and explain how to choose the desired option.

3.1. RosenView Startup and Screen Navigation

The following assumes that RosenView has a power supply and is connected to a monitor.

1. With RosenView powered OFF, plug in a PS/2 standard PC keyboard into RosenView's front-panel keyboard connection (see Section 2 for connection information).
2. Turn ON the 28V power supply; wait a few minutes while RosenView goes through its power-up sequence.
3. After the Startup screen has been displayed for more than 10 seconds, press the keyboard menu key (shown below) to access the technical setup menus.

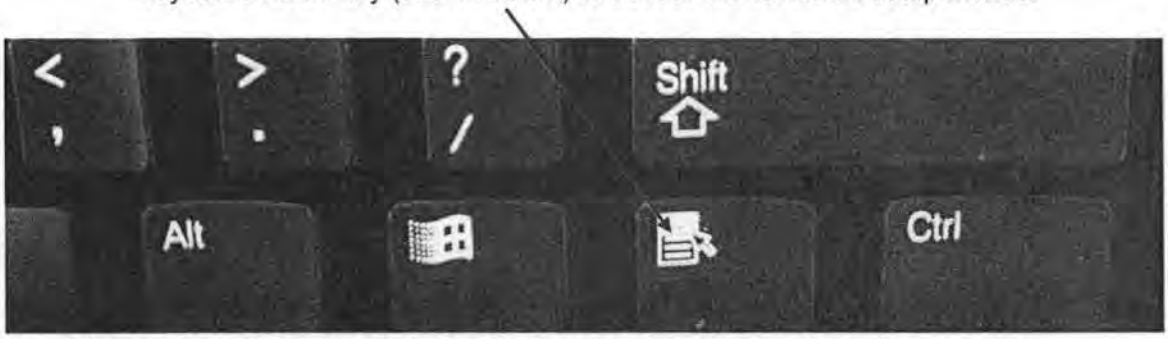

Figure 3 Pressing the Menu key activates the technical setup menu options shown below

Figure 4 Main RosenView Menu

4. To navigate through the menus, use the following table for control information.

Table 1. Keyboard Controls for RosenView Technical Setup Menu Navigation

Keyboard Key	Description
Menu Key	Press this key to access the technical setup menus
Tab key	Press the tab key to highlight options on the menu
Space Bar key	Press the space bar to select an option
Arrow keys	Use up and down arrow keys to change the selected options

4. CHANGING DEFAULT OPTIONS

4.1. Setting Display Options

The options selected in the Display Units menu will appear in RosenView's information screens or in the information bars located above and below the RosenView map (depending upon how the configuration is setup).

1. Select the **Set Display Options...** button and the Display Units menu will appear as shown below.
2. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

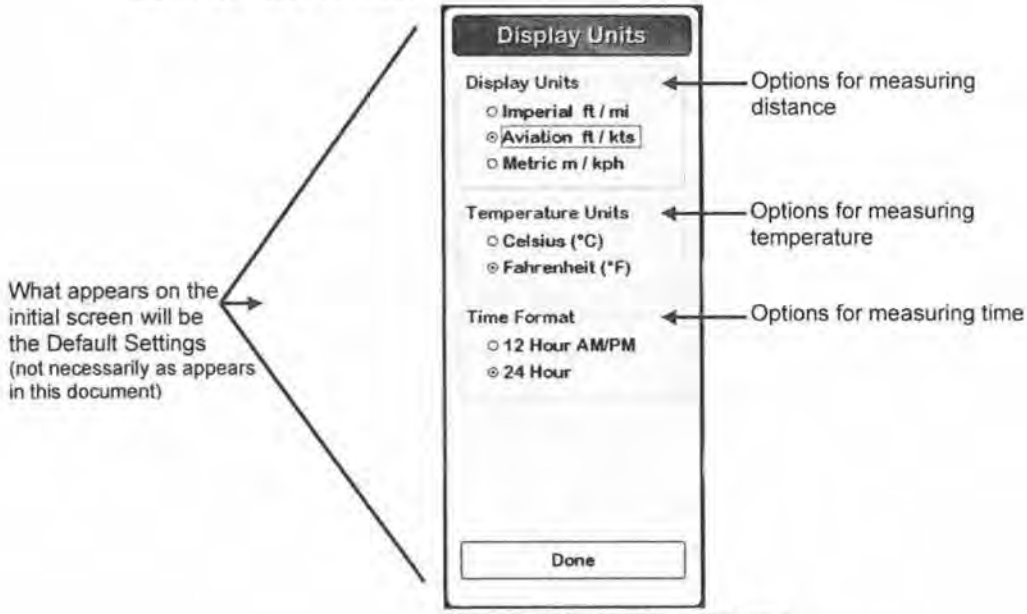

Figure 5 Display Units Options

4.2. Customize Setup

1. Select **Customize Setup...** and the Customize Setup menu appears as shown below.

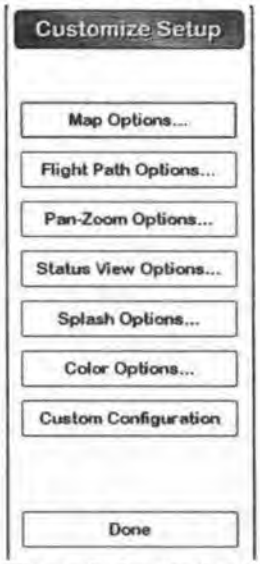

Figure 6 Customize Setup Menu

4.3. Map Options

1. Select **Map Options...** to access the Map Settings menu shown below.

   To allow visual comparisons between options, the map displayed on the right-hand side will change as new options are selected.

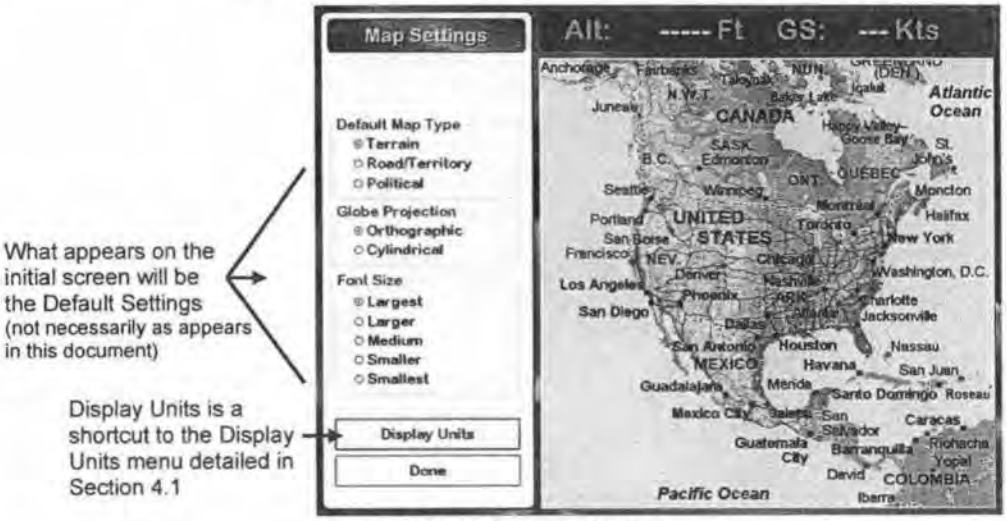

Figure 7 Map Settings Options

2. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

4.4. Flight Path Options

The Flight Path is a line that displays in front of and behind the airplane icon on the map. The Flight History path shows a line behind the aircraft icon that indicates where the aircraft has been. The Flight Route path shows a line in front of the aircraft icon that indicates where the aircraft is going.

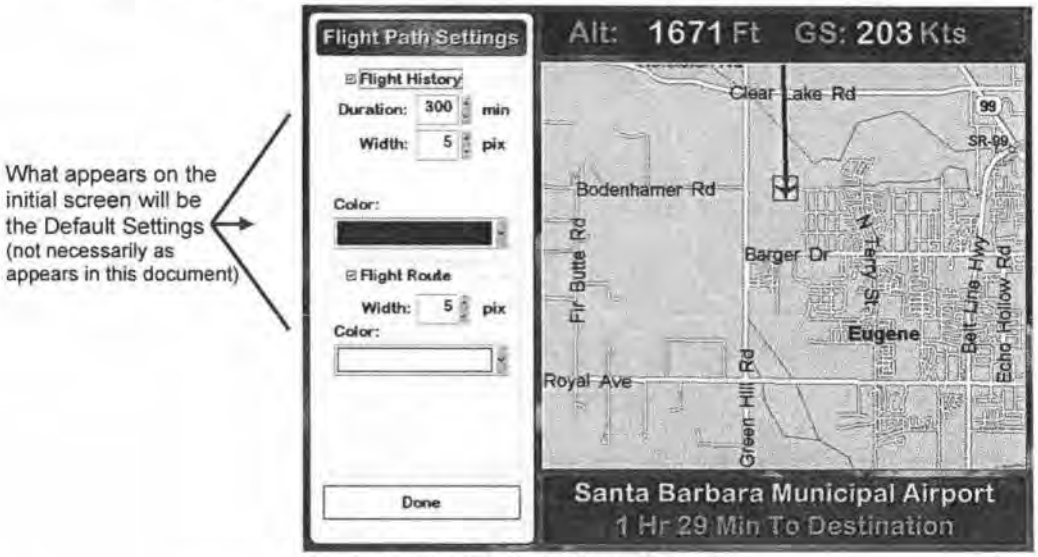

Figure 8 Flight Path Settings Options

1. Select **Flight Path Options...** to access the Flight Path Settings menu shown below.

   Flight History Option Definitions:

   - **Duration** sets the amount of flight history that RosenView stores before discarding information—this setting determines the line length that trails the aircraft icon
   - **Width** sets the width of the line displayed behind the aircraft icon to show where the aircraft has been
   - **Color** sets the color of the line displayed behind the aircraft icon to show where the aircraft has been

   Flight Route Option Definitions:

   - **Width** sets the width of the line displayed in front of the aircraft icon to show the route the aircraft will travel
   - **Color** sets the color of the line displayed in front of the aircraft icon to show the route the aircraft will travel

2. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

4.5. Pan-Zoom Options

1. Select **Pan-Zoom Options...** to access the Pan-Zoom Settings menu shown below.

The Pan feature allows the user to move North, South, East and West on the map by pressing pan control buttons available with an optional controller.

The Zoom feature allows the user to zoom in and out on the map image by pressing zoom control buttons available with an optional controller.

Figure 9 Pan-Zoom Options

User Mode Settings Option Definitions:

- **Timeout** sets the amount of time (in seconds) that passes before RosenView will return to default cycling screens after a user zooms or pans
- **Zoom Steps** establishes the number of zoom steps available for users manually zooming in and out while viewing a map screen; each zoom step presents a map view that is incrementally closer or farther away. The less steps you allow, the greater the change between zoom steps

Zoom Cycle Settings Option Definitions:

- **Steps** sets the number of zoom steps that occur when RosenView is default cycling through screen views without user interaction
- **Duration** sets the amount of time each screen displays when RosenView is default cycling though screen views without user interaction

2. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

4.6. Status View Options

1. Select **Status View Options...** to access the Status Settings menu shown below.

Status Settings allow options for how flight information is viewed on RosenView.

Figure 10 Status Settings Options

Active Views Option Definitions:

- **Track Status** is checked to show the upper status bar that displays altitude and ground speed.
- **Flight Status** is checked to show the lower status bar that displays (when information is available) destination and time to arrive at destination.
- **Flight Summary** is checked to enable three flight information screens to cycle on screen at preset intervals. The three screens' information includes the following:

  Screen One shows altitude, ground speed, heading, and outside air temperature (when available).

  Note: When using GPS data the temperature information will not be available.

Figure 11 Information Screen

Screen Two shows destination distance, ETE (estimated time en route), ETA (estimated time of arrival), and local time at destination.

Figure 12 Information Screen

Screen Three shows current location, latitude and longitude, and the current day, date and time.

Figure 13 Information Screen

Use the following setting options to determine how often information screens appear and how long they display before cycling to another screen.

- **Summary Interval** time is set to determine how often an information screen interrupts the map shown while RosenView is on and receiving data.
- **Summary Duration** time is set to determine how long an information screen is shown.

2. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

4.7. Splash Options (Startup Screen)

Splash options determine how the startup screen will interact with RosenView when the aircraft is not tracking on the map.

1. Select **Splash Options...** to access the Splash Settings menu shown below.

   Idle Image Option Definitions:

   - **Show On Idle**:

   There are three situations in which the startup screen will display:

   i) when RosenView is first powered on and is booting up

   ii) whenever RosenView is powered on and no data is being received

   iii) when RosenView is receiving data but the aircraft is not flying

   When the **Show On Idle** option is checked, and the aircraft is receiving flight information data but is not in flight, the startup screen will display at preset intervals until the aircraft is in flight and RosenView starts tracking.

   - **Idle Interval** time is set to determine how often the startup screen interrupts RosenView when it is receiving data but the aircraft is not moving.
   - **Idle Duration** time is set to determine how long the startup screen interrupts RosenView when it is receiving data but the aircraft is not moving.

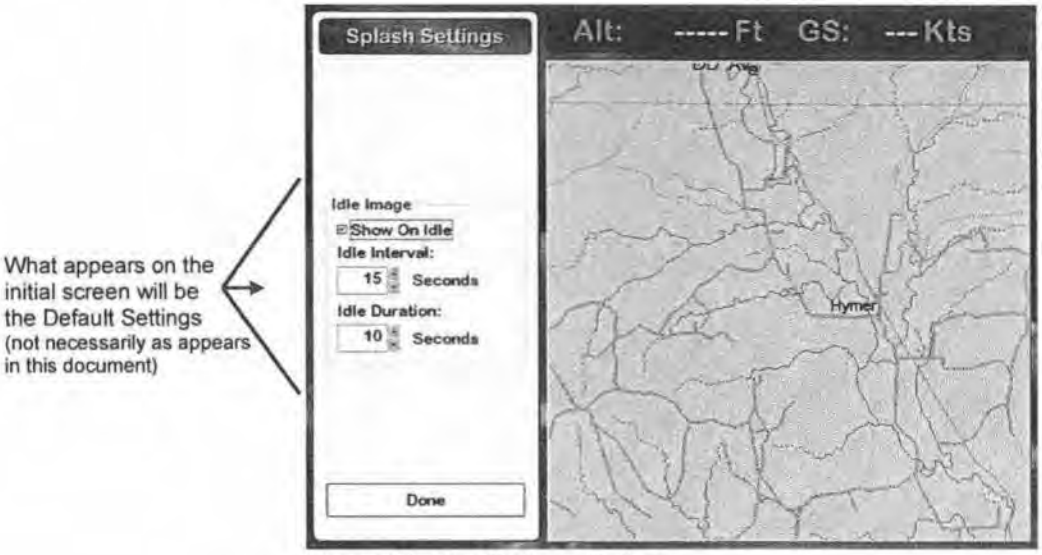

Figure 14 Map Settings Options

2. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

4.8. Color Options

1. Select **Color Options...** to access the Color Settings menu shown below.

   To allow visual comparisons between options, the map displayed on the right-hand side, and the menu on screen will change as new options are selected.

   Color Settings Option Definitions:

   Each color setting option is labeled on the image below to show what color is being set during color selections.

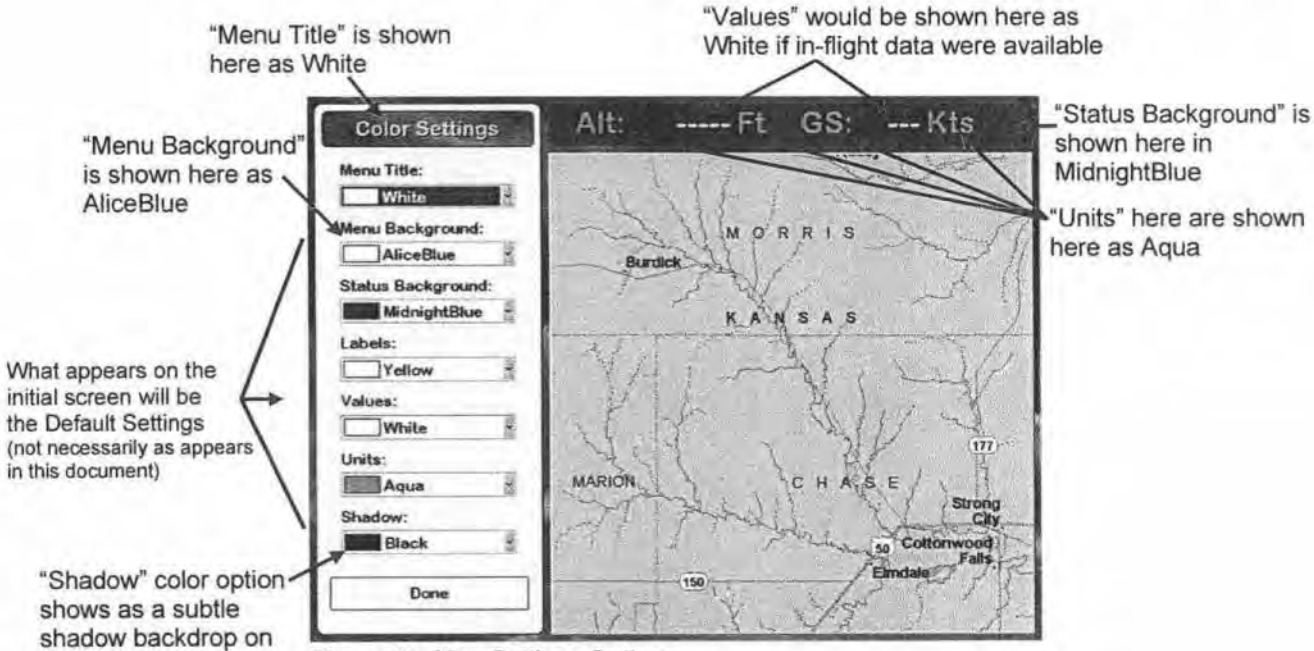

Figure 15 Map Settings Options

"Labels" are shown here as Yellow on text found in information screens
Altitude..... 30097 Ft
Ground Speed..... 384 Kts
Heading..... 045° NE
Outside Air Temp. -44 °F
"Values" are also shown in information screens when in-flight data is available

2. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

4.9. Custom Configuration

If custom files have not been created (and they are desired), insert the RosenView Configuration Tool CD into a PC, open *RosenView Configuration Tool User's Manual* P/N 9003384 and complete the customization procedure.

1. Select **Customize Configuration** to access the Configuration Files menu shown below.

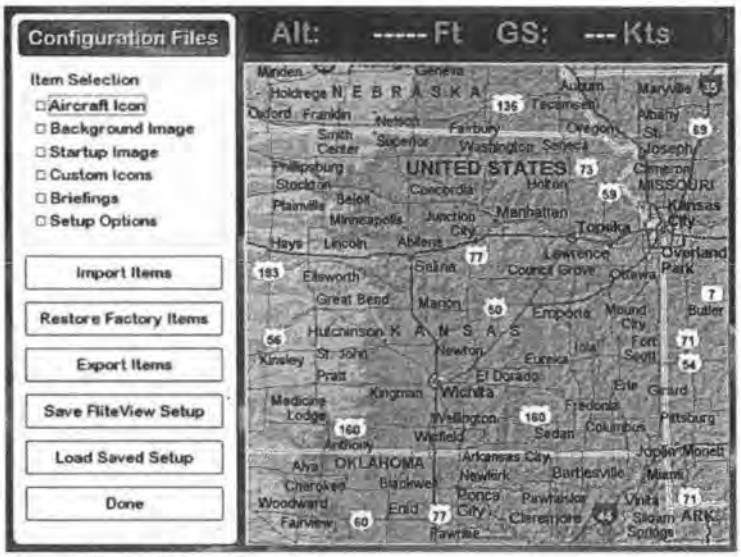

Figure 16 Map Settings Options

When importing customized options from the loaded USB Flash Drive (thumbdrive):

2. Connect the supplied thumbdrive with custom files to the RosenView USB port; allow a minute for RosenView to recognize the thumbdrive.

3. Select the items desired for customization (listed below **Item Selection** in the Configuration Files menu).

   Note: Selecting **Setup Options** from the **Item Selection** list will import changes within the default settings that have been saved and exported to a thumbdrive. For example, changes made through the Customize Setup menu options; screen appearance, color schemes, etcetera.
   This setting only works if a saved RosenView setup has been exported to the thumbdrive being used to import files.

4. Select **Import Items**; all items selected from the **Item Selection** list will import into RosenView.

   Note: If **Setup Options** was selected from the **Item Selection** list, select **Load Saved Setup** to activate those settings.

Configuration Files Button Option Definitions:

- **Import Items** is selected to import custom items into RosenView so they become active in the RosenView program. See the numbered procedure listed above for more detail.
- **Restore Factory Items** is selected to delete custom options and restore items from the Item Selection list to their factory default settings.
- **Export Items** is selected to export customized items (as selected in the Item Selection list) to a thumbdrive.
  The thumbdrive must be plugged into RosenView's USB port for a minute prior to selecting Export Items. This procedure is used to transfer a desired custom file setup from one RosenView unit to the thumbdrive so the same configuration can be imported onto another RosenView unit.

  Note that **Setup Options will not** export if **Save RosenView Setup** has not been selected first to save the files. Select **Save RosenView Setup** before selecting **Setup Options** and then **Export Items**.
- **Save RosenView Setup** is selected to save all settings that have been changed from default; **these settings are not the custom configurations** completed with the RosenView Configuration Tool Software. The setup being saved in this process includes **all** changes made through the Customize Setup menu options; screen appearance, color schemes, etcetera.

  Save RosenView Setup is used for two reasons:

  i) To transfer a desired customization from one RosenView to a thumbdrive. Then import the configuration to another RosenView unit as described in Section 4.9, numbers 1-5.

  ii) To save the settings so that if exploring other setup options, one can simply select **Load Saved Setup** to return to the saved configuration.
- **Load Saved Setup** is selected to apply a saved customization of screen appearance, color schemes, etcetera that was either saved using the **Save RosenView Setup** option or Imported using the **Import** option.

5. Set each option as desired and then select **Done** to save changes and return to the technical setup menus.

4.10. Technical Setup Complete VERY IMPORTANT!

NOTICE **Do not cycle power!** When technical Setup is complete, select **Done** in the main RosenView menu (shown in Figure 4) and then remove the keyboard. RosenView will automatically reboot. **RosenView must complete this reboot in order to save changed settings**.

Enter Test Mode and View your Configuration (recommended):

To enter Test Mode:

1. Remove 28V power from RosenView.
2. While pressing and holding in the **Reset/Power** button, turn on the 28V power supply—continue to hold in the **Reset/Power** button for a couple seconds and then release.
   After booting up, Test Mode will display a simulated flight on screen; all optional controls are available during a simulated flight.

   Note: Test Mode will only operate when no external data is being received by RosenView. Any GPS or ARINC data received will cause the RosenView system to exit Test Mode.

   Note: While in Test Mode, the internal IR remote sensor is active for receiving IR remote control.

5. TECHNICAL SPECIFICATIONS AND TECHNICAL REFERENCES

5.1. Pinout Connections

NOTICE RosenView Pinout information is found at www.rosenaviation.com Click on the *Support & Documentation* tab to obtain Technical documentation. Select *Technical Drawings & Pinouts* and then choose *mapping systems*.

5.1.1. Control Inputs

NOTICE For Controller information, access www.rosenaviation.com Click on the *Product* tab and then select *accessories*. Scroll down to find RosenView external controllers.

Briefing Control Panel operation (P/N 0300-410 and 0300-411):

i) Import briefing files and allow RosenView to reboot (see Section 4.9 on page 15).

ii) Press **Brief 1** (or the desired briefing) and then press **Play** to start the briefing; the Briefing Control Panel's green LED will light while the briefing is active.

iii) Press **Cancel** to stop an active Briefing.

7-Button Controller (P/N 0300-407): The 7-Button Controller offers hard controls for Zoom (in and out), Pan (N, S, E, and W), and Return to return to the aircraft current position.

RS485: RosenView can be controlled with RS485. For specifications please contact Rosen Aviation at 541.342.3802.

IR Remote: RosenView can be controlled using Rosen Aviation's pre-programmed Universal Remote Control (P/N **0500-005**). Other programmable remotes may be programmed using the following information:

The RosenView IR receiver uses NEC style 32 bit encoding. In this encoding format, there are 16 bits of actual information transmitted as part of a 32 bit frame. The 16 bits of information is divided into 2 parts, the first part being an 8 bit device code, and the 2nd part being an 8 bit function code. Each 8 bit portion of the transmitted code is followed by the same code with each bit inverted. Most IR remotes using this format will have the same device code for each button on the remote, and a unique function code for each button. Listed below in hexadecimal format are the default codes used with RosenView:

Table 2. Hexadecimal Format Of Default Codes Used With RosenView

Control	Device Code	Function Code
Enter Button:	0x80	0x0D
Pan Up:	0x80	0x08
Pan Down:	0x80	0x09
Pan Left:	0x80	0x11
Pan Right:	0x80	0x10
Zoom In:	0x80	0x52
Zoom Out:	0x80	0x40

As an example, the actual transmission of the Enter button would consist of the following bit sequence:

Table 3. Actual Transmission of the Enter Button Bit Sequence

Lead In Period	Device Code	Inverted Device Code	Function Code	Inverted Function Code
→	d0 d1 d2 d3 d4 d5 d6 d7 0 0 0 0 0 0 0 1	d0 d1 d2 d3 d4 d5 d6 d7 1 1 1 1 1 1 1 0	f0 f1 f2 f3 f4 f5 f6 f7 0 0 0 0 1 0 1 1	f0 f1 f2 f3 f4 f5 f6 f7 → 1 1 1 1 0 1 0 0

Note that within each byte transmitted, the least significant bit is transmitted first.

If you need assistance in configuring a universal remote control to work with RosenView, please contact Rosen Aviation at 541.342.3802.

5.1.2. Audio/Video Outputs

RosenView has three available video output formats and one stereo audio output.

1. **Analog RGB Output:** Analog RGB connects to the 15-pin high density connector. Analog RGB will produce the best results when using monitors sized 10" or above.

   Note: When used with Rosen Aviation bulkhead monitors, a cabin controller can switch between composite and analog RGB via the source input on the monitor's external switch controller's connector. See the applicable monitor's technical manual for specific source input toggle information.

2. **S-Video Output:** S-Video connects to coaxial pins A1 and A2 on the main interface connector (21 WA4).

3. **Composite Video Output:** There are also 2 separate composite video outputs on pins A3 and A4.

   Audio Output: Audio Left, Right, and Ground connect to pins 1 through 3 on the 26-pin Data Interface Connector.

5.2. Technical References

NOTICE Always check www.rosenaviation.com under the Support&Documentation tab to ensure that you are working with the most current revision of technical documentation.

Table 4. Technical References

Document Title	Part Number	Location
RS-485 Network Interface Protocol	9002933	www.rosenaviation.com
RosenView Outline and Installation Drawing	9003552	www.rosenaviation.com
Configuration Tool User's Manual	9003384	www.rosenaviation.com
RosenView User's Manual	9002603	www.rosenaviation.com
RosenView Briefing Control Panel	0300-410	www.rosenaviation.com
7-Button Controller	0300-407	www.rosenaviation.com

RosenView Configuration Tool
User's Manual

1. REQUIREMENTS

The following requirements must be met in order to customize RosenView Software.

1.1. Operating System Requirements:

- Windows XP

NOTICE If problems are encountered while trying to run the Configuration Tool customization software, ensure that the most current version of Microsoft .NET Framework is installed on the PC.

The Microsoft .NET Framework install package is available through a link on the RosenView Configuration Tool CD.

1.2. Human Interface Requirements:

- PC, Keyboard, and mouse
- CD ROM

1.3. Hardware Requirements:

- Available USB Port
- Minimum 250 Meg free hard drive space

2. GETTING STARTED

1. To start the RosenView customization process, insert the RosenView Configuration Tool CD into your computer's CD ROM drive.

The RosenView configuration software should start automatically. If not, use your mouse to open the CD ROM drive and double click on RosenView Config.exe. The following startup window will display onscreen:

Figure 1 RosenView Configuration Tool Startup Window

2. Click on **Start** to proceed to the ***Main Customization Menu*** window (see Figure 2).
3. Click on **Quit** to exit the ***RosenView Configuration Tool*** startup window.

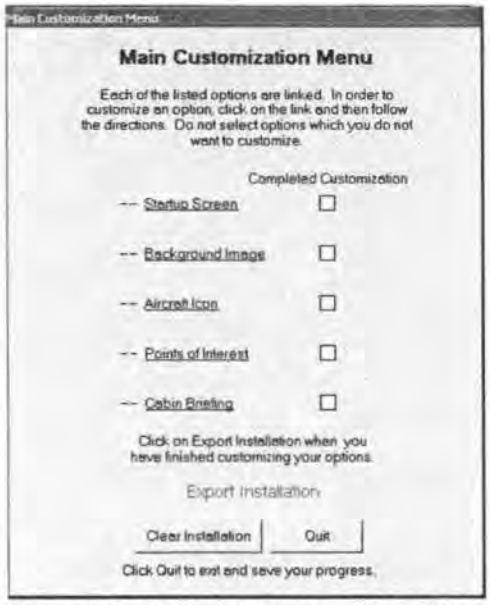
Main Customization Menu
Each of the listed options are linked. In order to customize an option, click on the link and then follow the directions. Do not select options which you do not want to customize.
Completed Customization
-- Startup Screen
-- Background Image
-- Aircraft Icon
-- Points of Interest
-- Cabin Briefing
Click on Export Installation when you have finished customizing your options.
Export Installation
Clear Installation
Quit
Click Quit to exit and save your progress.

Figure 2 Main Customization Menu Window

3. CREATING A CUSTOM STARTUP SCREEN

The startup screen displays when RosenView is powered on and when there is no flight data being input to RosenView. Users may change this screen to incorporate their own logo onto the startup screen or to add aesthetics not offered in the default startup screen.

To change the default startup screen:

1. Click on the **Startup Screen** link shown in Figure 2 to launch the ***Startup Screen*** window shown below.

NOTICE **Note the Startup Screen window's listed requirements and suggestions below. For assistance meeting requirements for best image quality, see the Appendix section of this document.**

Startup Screen
Startup Screen
Startup Screen requirements and suggestions:
• The startup image file format must be .bmp, .jpg, or .gif.
• There is no size requirement; however, the best image quality will be obtained when the image's resolution matches RosenView's screen resolution, which is set to 640x480.
Browse:
Clear
Preview:
Save
Cancel

Figure 3 Startup Screen Window

2. Click **Browse** to open the file ***Open*** browse window shown in Figure 4.

Note: Ensure that the selection meets the requirements as listed in the ***Startup Screen*** window shown above.

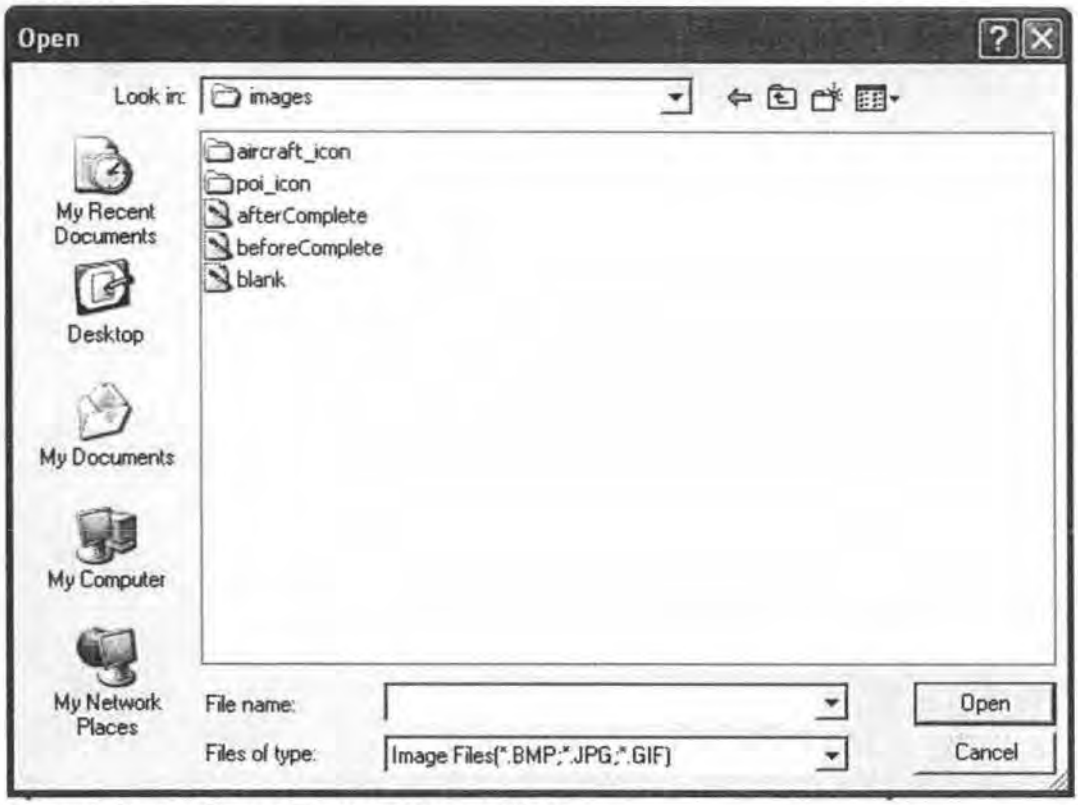

Figure 4 Startup Screen File Open Browse Window

3. Use the **Look in:** field box to navigate to the desired file.
4. Click on the desired file and then click **Open**.

The ***Startup Screen*** window reappears and the selected image width and height is shown. Options include: click on **Save** to change the background image, click on **Browse** to replace the file, click on **Clear** to clear the file, or click on **Cancel** to return to the ***Main Menu*** with no selection.

5. If satisfied with the selection, click on **Save**.

The ***Main Menu*** reappears and the **Startup Screen** customization check box is checked and colored green as shown below.

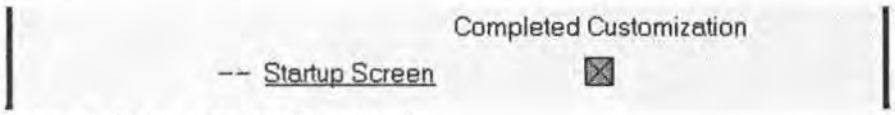

Figure 5 Startup Screen Completed

4. CREATING A CUSTOM BACKGROUND IMAGE

The background image is seen in the margins while viewing RosenView. For example, Figure 6 shows the default light-blue sky with clouds background. Notice the background shows through RosenView's top and bottom banners.

Figure 6 Default Background: Light-Blue Sky With Clouds

To replace the default background image:

1. Click on the **Background Image** link shown in the Main Menu (Figure 2 on page 3) to launch the ***Background Image*** window shown below.

NOTICE **Note the Background Image window's listed requirements and suggestions below. For assistance meeting requirements for best image quality, see the Appendix section of this document.**

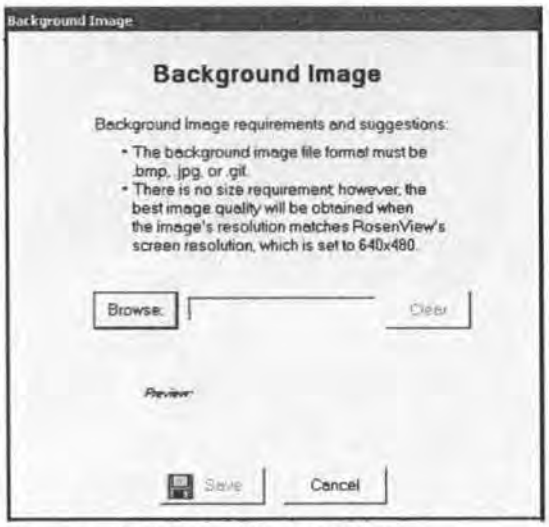
Background Image
Background Image
Background image requirements and suggestions:
• The background image file format must be .bmp, .jpg, or .gif.
• There is no size requirement; however, the best image quality will be obtained when the image's resolution matches RosenView's screen resolution, which is set to 640x480.
Browse...
Clear
Preview:
Save
Cancel

Figure 7 Background Image Window

2. Click **Browse** to open the file ***Open*** browse window (similar to the window shown in Figure 4).
3. Use the **Look in:** field box to navigate to the desired file.
4. Click on the desired file and then click **Open**.

The ***Background Image*** window reappears with options that include: click on **Save** to change the background image, click on **Browse** to replace the file, click on **Clear** to clear the file, or click on **Cancel** to return to the ***Main Menu*** with no selection.

5. When satisfied with the background selection, click on **Save**.

The ***Main Menu*** reappears and the **Background Image** customization check box is checked and colored green as shown below.

Figure 8 Background Image Customization Completed

5. SELECTING A CUSTOM AIRCRAFT ICON

The ***Aircraft Icon*** customization screen provides users the option of downloading an aircraft icon from icon choices provided through the software, or downloading their own aircraft icon. The selected icon will represent the aircraft that travels on the map when viewing RosenView.

To select an icon:

1. Click on the **Aircraft Icon** link shown in the ***Main Customization Menu*** (Figure 2 on page 3) to launch the ***Aircraft Icon*** window shown below.

Aircraft Icon
Aircraft Icon
Click on one of these two links for customizing the Aircraft Icon:
Browse for My Icon
Choose from Existing Icons
Close

Figure 9 Aircraft Icon Main Window

2. Click on **Browse For My Own Icon** to bring up the ***Aircraft Icon – Browse*** window as displayed in Figure 10.
3. Click on **Choose From Existing Icons** to bring up the ***Aircraft Icon – Choose*** window shown in Figure 11.

NOTICE **Note the Custom Aircraft Icon requirements listed in the *Aircraft Icon – Browse* window below. For assistance meeting requirements see the Appendix section of this document.**

Aircraft Icon - Browse
Aircraft Icon - Browse for My Icon
Custom Aircraft Icon requirements:
• Aircraft icons must be a top-down view and be facing North (up), as shown in the example below:
• The aircraft icon image format must be .bmp, .jpg, or .gif.
• Resolution is recommended to be 40x40 pixels, but no more than 90x90.
*The top-left pixel's color is transparent in RosenView.
Browse:
Clear
Preview:
Save
Cancel

Figure 10 Aircraft Icon - Browse Window With Default Icon Shown In Example

4. Click **Browse** to open the file ***Open*** browse window (similar to the window shown in Figure 4).

5. Use the **Look in:** field box to navigate to the desired file.

Ensure that the selection meets the requirements as listed in the ***Aircraft Icon – Browse*** window shown above.

6. Click on the desired file and then click **Open**.

The ***Aircraft Icon – Browse*** window appears, and the selected image width and height is shown.

7. Click on **Save** to return to the ***Main Menu***.

The **Aircraft Icon** customization check box will be checked and colored green as shown in Figure 12 on the following page.

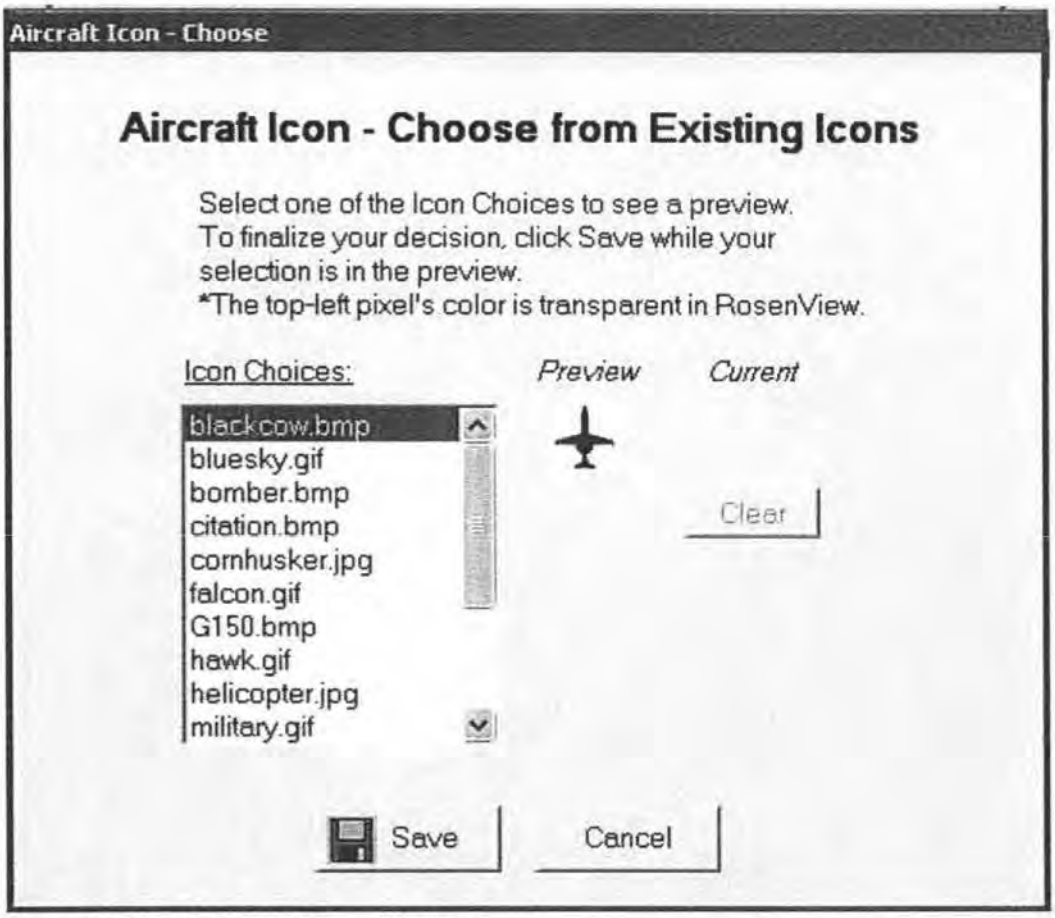

Figure 11 Aircraft Icon - Choose Window

1. Click on an icon from the **Icon Choices** list box. The image will be displayed under **Preview** on the right-hand side of the dialog box.
2. Click on the desired selection, and then click on **Save** to return to the ***Main Menu***.

The **Aircraft Icon** customization check box will be checked and colored green as shown below.

Figure 12 Customized Aircraft Icon Completed

6. CUSTOMIZING POINTS OF INTEREST

The **Points of Interest** (POI) window allows users to include icons and information concerning areas of interest. Such areas of interest may include personal properties or favorite building locations. Users have the option of downloading an icon from choices provided through the software, or downloading their own icon.

To add points of interest to the RosenView program:

1. Click on the **Points of Interest** (POI) link on the ***Main Menu*** to launch the ***Points of Interest*** window shown below.

NOTICE **Note the Custom Icon requirements and information listed in the *Points of Interest* window below. For assistance meeting requirements see the Appendix section of this document.**

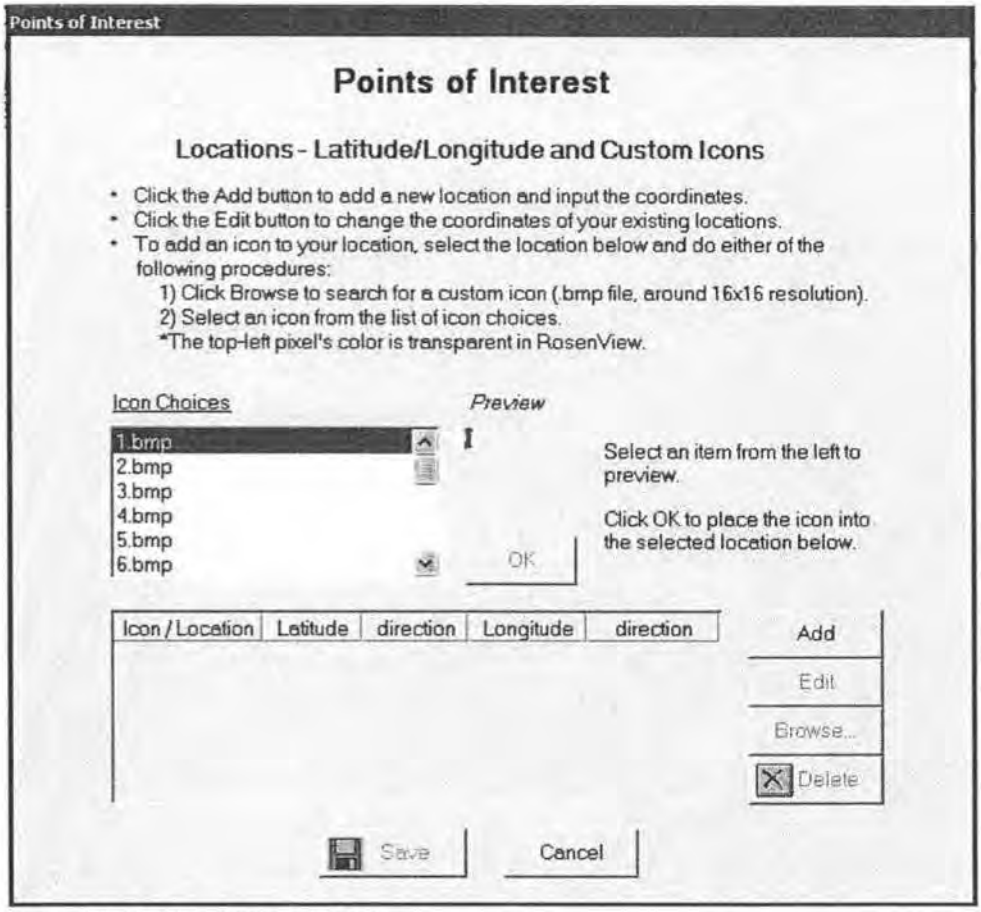
Points of Interest
Points of Interest
Locations - Latitude/Longitude and Custom Icons
• Click the Add button to add a new location and input the coordinates.
• Click the Edit button to change the coordinates of your existing locations.
• To add an icon to your location, select the location below and do either of the following procedures:
1) Click Browse to search for a custom icon (.bmp file, around 16x16 resolution).
2) Select an icon from the list of icon choices.
*The top-left pixel's color is transparent in RosenView.
Icon Choices
Preview
1.bmp
2.bmp
3.bmp
4.bmp
5.bmp
6.bmp
Select an item from the left to preview.
Click OK to place the icon into the selected location below.
OK
Icon / Location
Latitude
direction
Longitude
direction
Add
Edit
Browse...
Delete
Save
Cancel

Figure 13 Points of Interest Window

2. Click the **Add** button to access the ***POI Data Editor*** as seen below in Figure 14.

The ***POI Data Editor*** automatically validates the data being entered. Figure 15 shows an example of a message displayed when invalid data is entered.

NOTICE **To convert latitude and longitude degrees, minutes and seconds to decimals** visit www.fcc.gov/mb/audio/bickel/DDDMMSS-decimal.html on the web; or search for other conversion sites.

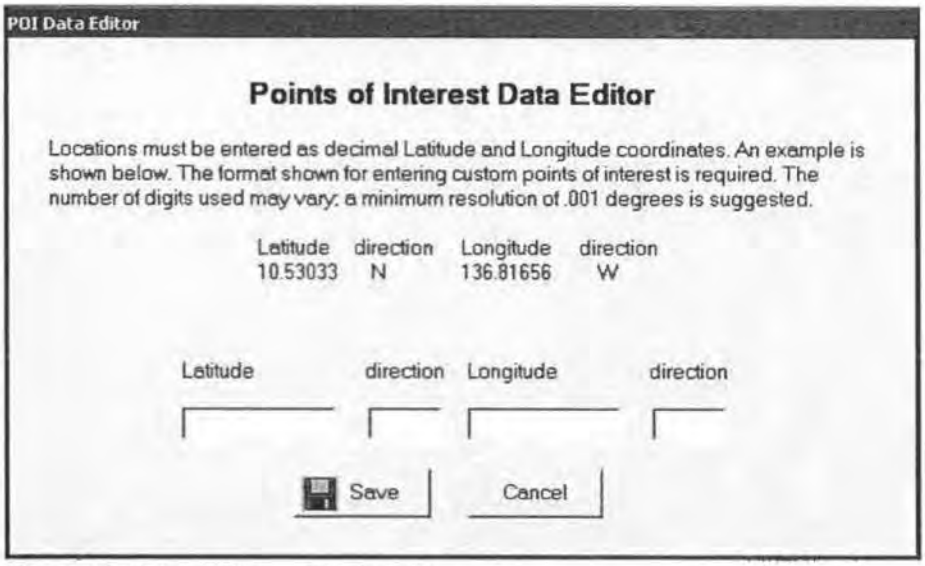
POI Data Editor
Points of Interest Data Editor
Locations must be entered as decimal Latitude and Longitude coordinates. An example is shown below. The format shown for entering custom points of interest is required. The number of digits used may vary; a minimum resolution of .001 degrees is suggested.
Latitude direction Longitude direction
10.53033 N 136.81656 W
Latitude direction Longitude direction
Save
Cancel

Figure 14 Points of Interest Data Editor

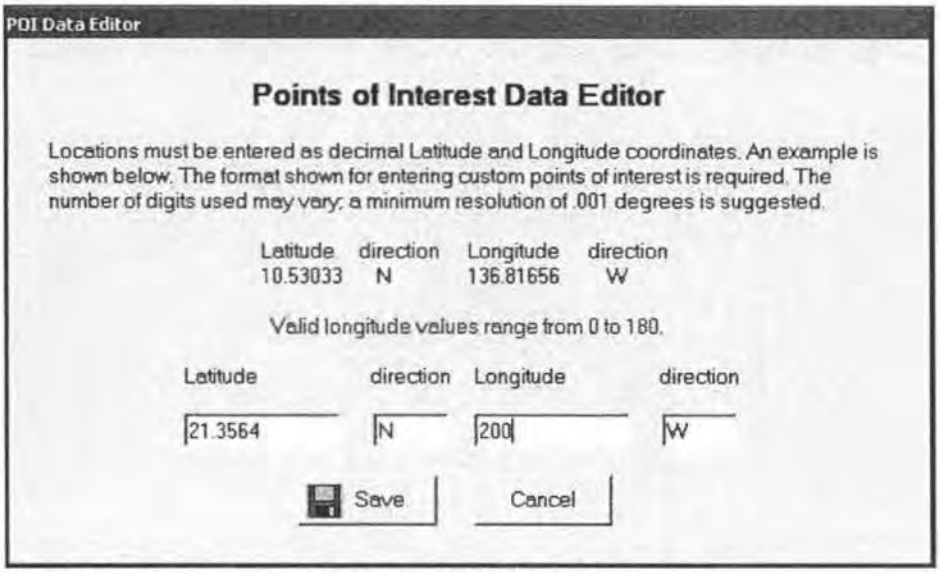
POI Data Editor
Points of Interest Data Editor
Locations must be entered as decimal Latitude and Longitude coordinates. An example is shown below. The format shown for entering custom points of interest is required. The number of digits used may vary; a minimum resolution of .001 degrees is suggested.
Latitude direction Longitude direction
10.53033 N 136.81656 W
Valid longitude values range from 0 to 180.
Latitude direction Longitude direction
21.3564 N 200 W
Save
Cancel

Figure 15 Points of Interest Data Editor With Error Message

3. After completing the POI data input, click **Save** to return to the ***Points of Interest*** screen as seen in Figure 16.

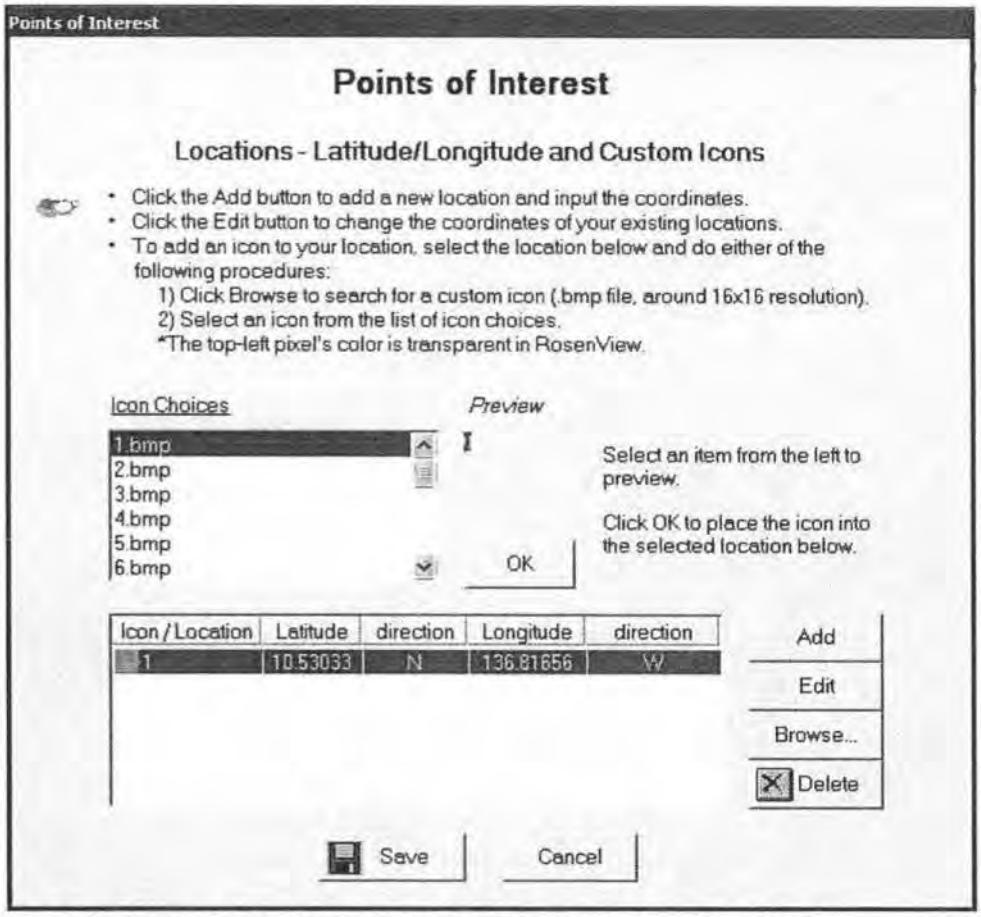

Figure 16 Points of Interest Window After POI Information is Completed

To add an icon choice for a POI location:

1. Click on the desired location located in the POI Latitude / Longitude table.
2. Complete one of the following two steps:
   a. Click **Browse** to search for custom icons; ensure that icons meet the requirements as stated in the ***Points of Interest*** window.

      OR

   b. Click on an icon from the Icon Choices list box in the top half of the window and then click **OK**.

NOTICE Custom POI icons will show on the RosenView map when zoomed in close. As the zoom levels retract, the POI icon will be replaced by a symbol; from far out zoom levels nothing will show.

The selected icon will be displayed in the POI Latitude / Longitude table on the ***Points of Interest*** screen as shown below.

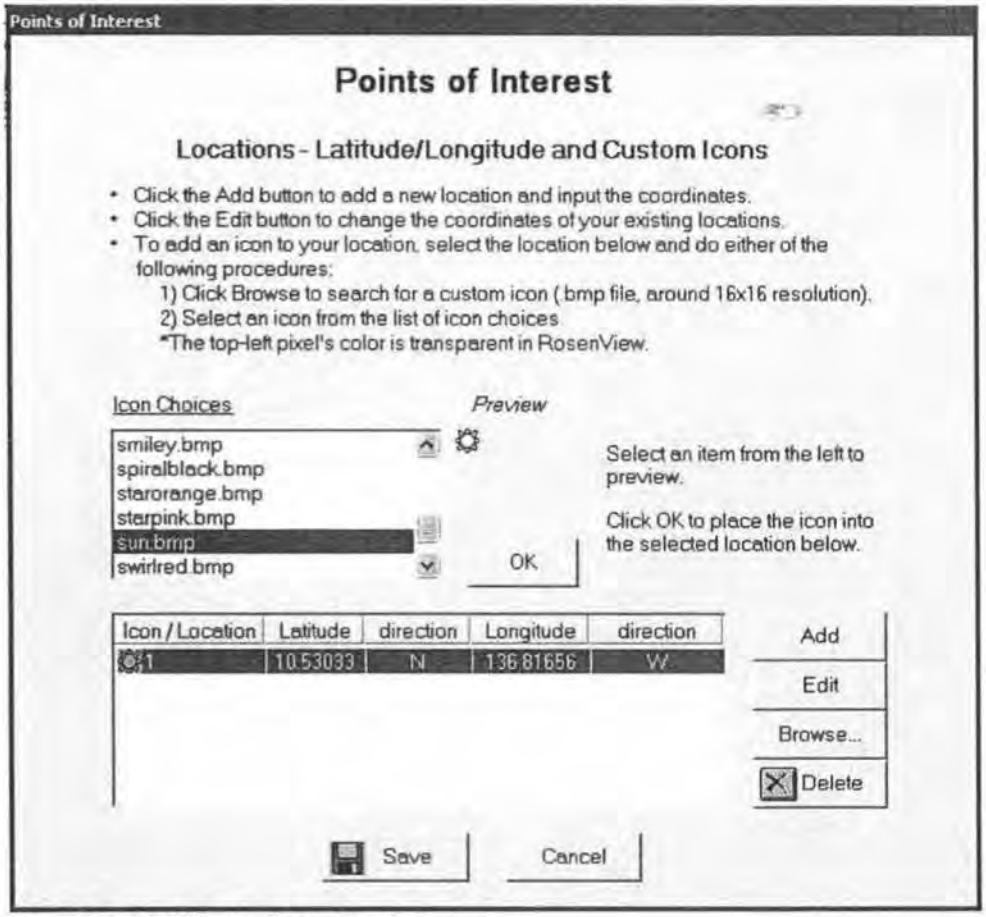

Figure 17 POI Window With Icon Selected

Repeat this POI procedure to continue adding locations into the POI Latitude / Longitude table.

To change an existing entry:

1. Click on the desired line in the Latitude / Longitude table and then click on **Edit** to access the ***POI Data Editor*** as seen in Figure 14.
2. When all entry points have been made, click on **Save** to save, or **Cancel** to return to the ***Main Menu*** without saving changes.

If **Save** is chosen, the ***Main Menu*** will appear with the **Points of Interest** customization check box checked and colored green as shown in as shown below.

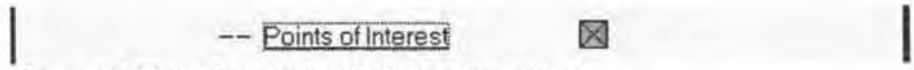

Figure 18 Main Menu With POI Option Completed

7. INSTALLING CUSTOM CABIN BRIEFING

Cabin Briefing options allow users to upload up to four cabin briefing messages. Briefings might include welcome information, travel information, or in-flight services being offered.

These messages are created separate from RosenView and then uploaded to the software. See file requirements listed in the ***Cabin Briefing*** window shown below.

To add cabin briefings:

1. Click on the **Cabin Briefing** link shown in the ***Main Menu*** (Figure 2 on page 3) to launch the ***Cabin Briefing*** window shown below.

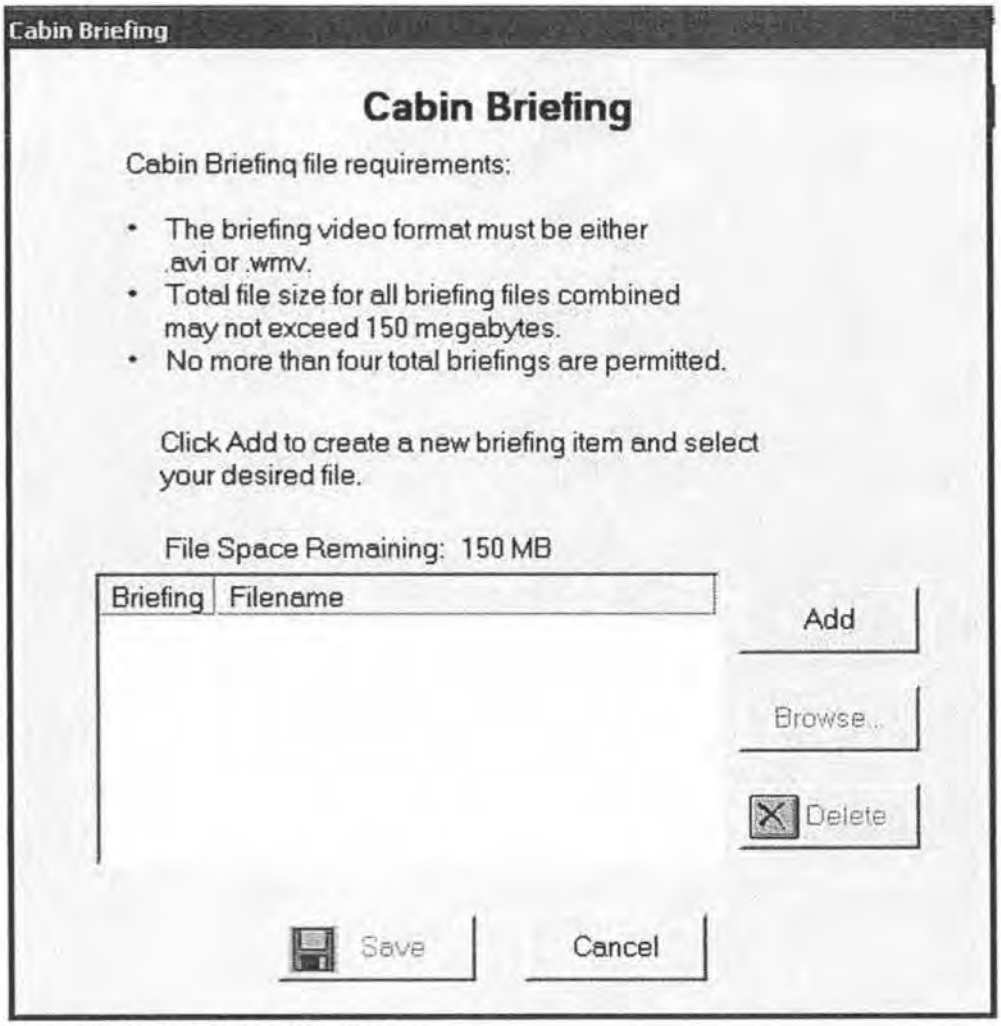
Cabin Briefing
Cabin Briefing
Cabin Briefing file requirements:
• The briefing video format must be either .avi or .wmv.
• Total file size for all briefing files combined may not exceed 150 megabytes.
• No more than four total briefings are permitted.
Click Add to create a new briefing item and select your desired file.
File Space Remaining: 150 MB
Briefing
Filename
Add
Browse...
Delete
Save
Cancel

Figure 19 Cabin Briefing Window

2. Click **Add** in the Cabin Briefing window to access the file ***Open*** browse window (similar to the window shown in Figure 4).
3. Using the file ***Open*** browse window, find and click on the desired cabin briefing file, and then click **Open**.

The Cabin Briefing window will return with the selected file shown in the Briefing table.

Note: To change an existing file, click on an existing file line and then click on **Browse** to change the file or **Delete** to delete the file.

4. Click **Add** to continue adding Cabin Briefing files.

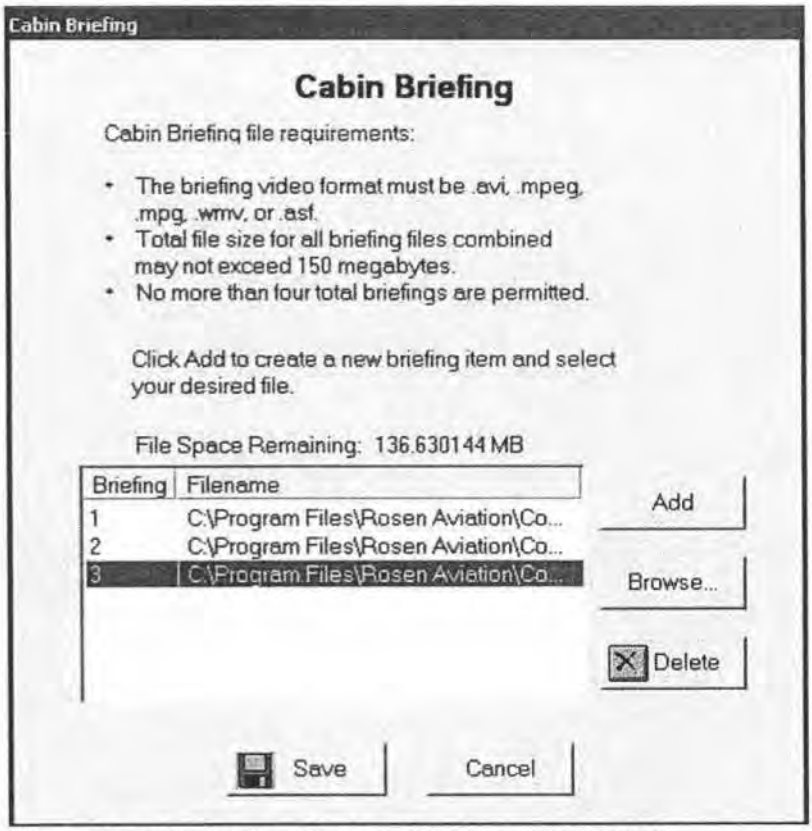

Figure 20 Cabin Briefing Window With Three Files Added

5. When finished selecting Cabin Briefings, click **Save**.

The ***Main Menu*** appears with the **Cabin Briefing** customization check box checked and colored green as shown below.

Figure 21 Cabin Briefing Option Completed

8. EXPORT INSTALLATION

To create the customized installation files:

1. Click on **Export Installation** when finished customizing selected options and the following window will appear.

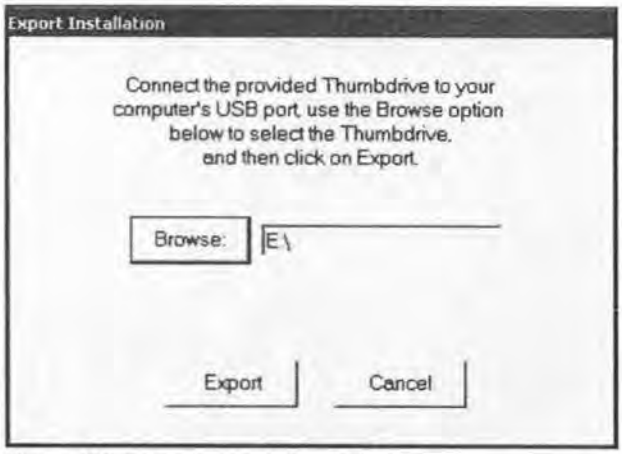
Export Installation
Connect the provided Thumbdrive to your computer's USB port, use the Browse option below to select the Thumbdrive, and then click on Export.
Browse:
E:\
Export
Cancel

Figure 22 Export Installation Window

2. Click on **Browse** (if necessary) to access the ***Browse for Folder*** window (shown below).

   a. Find and click on the provided thumbdrive's location and then click **OK**.

The ***Export Installation*** window reappears with the file location shown in the location field adjacent to the **Browse** button.

Note: Files can be exported to hard drive locations as well and kept for backup. To reuse these files, simply copy and paste them to a blank Thumbdrive when ready to install into RosenView.

Warning: The file hierarchy may be saved to any drive, but the file names and file order must remain the same or RosenView will reject them.

3. Click on **Export** and the RosenView user customization software will begin to generate the FlightView files and save them to the selected location.

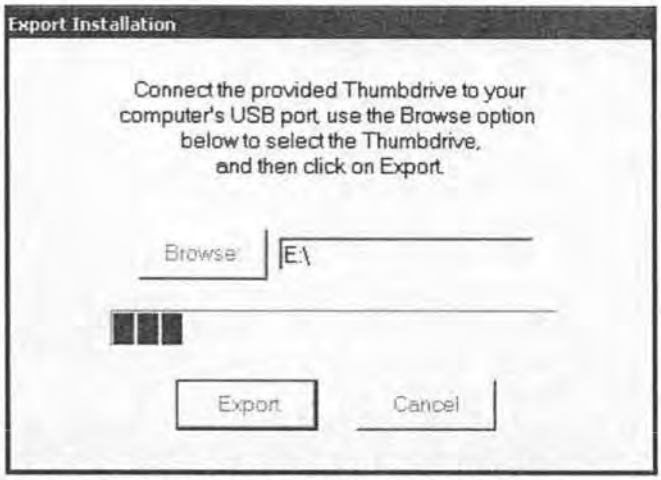
Export Installation
Connect the provided Thumbdrive to your computer's USB port, use the Browse option below to select the Thumbdrive, and then click on Export.
Browse
E:\
Export
Cancel

Figure 23 Export Installation Window In Progress

When the ***Export Installation*** window is complete, the ***Finished*** window displays as shown in Figure 24.

Read through the ***Finished*** window before clicking **OK**. Ensure that you understand the process necessary to proceed.

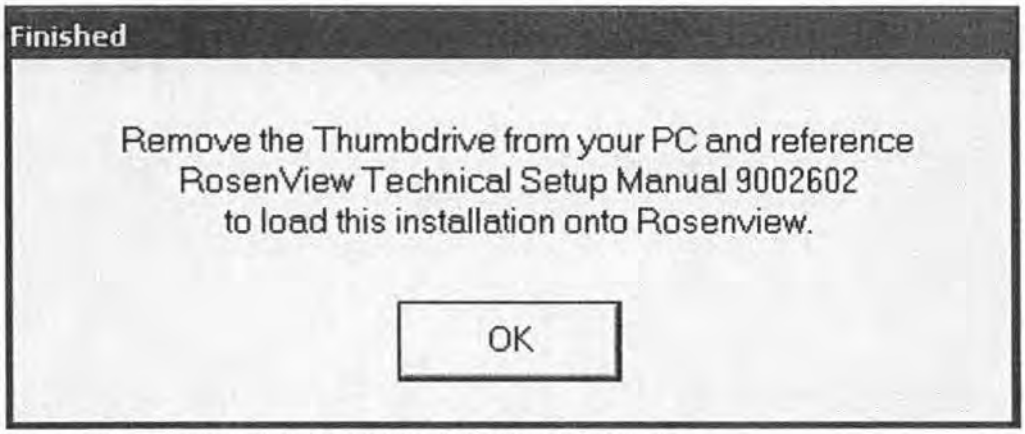
Finished
Remove the Thumbdrive from your PC and reference RosenView Technical Setup Manual 9002602 to load this installation onto Rosenview.
OK

Figure 24 Export Installation's Finished Confirmation Window

4. Click **OK** to return to the ***Main Menu***.
5. Click **Quit** to exit the RosenView Configuration Tool.

9. CLEARING FILES TO CREATE ANOTHER NEW CONFIGURATION

1. Click on **Clear Installation** to remove all the currently saved customization files from the software workspace.

Ensure that saved back-up customization files exist on the hard drive if concerned with losing most recently customized information.

When **Clear Installation** is clicked, a ***New Installation Confirmation*** window appears as shown below:

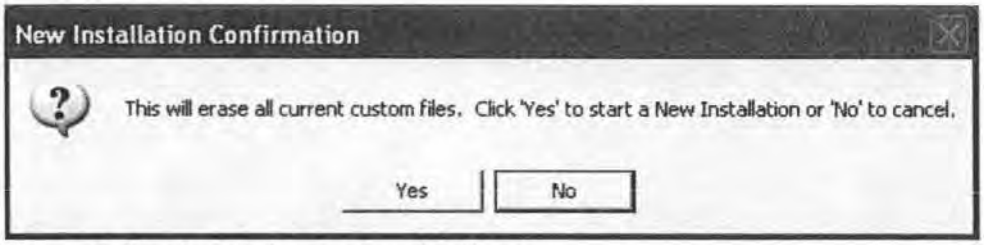
New Installation Confirmation
This will erase all current custom files. Click 'Yes' to start a New Installation or 'No' to cancel.
Yes
No

Figure 25 New Installation Confirmation Window

2. Click **Yes** to clear the file information and start a new installation, or **No** to cancel.

If a new installation is started, the ***Main Menu*** will appear with all customization option check boxes cleared as shown in Figure 26.

Repeat this document procedure as often as desired to create and save a variety of RosenView customized options.

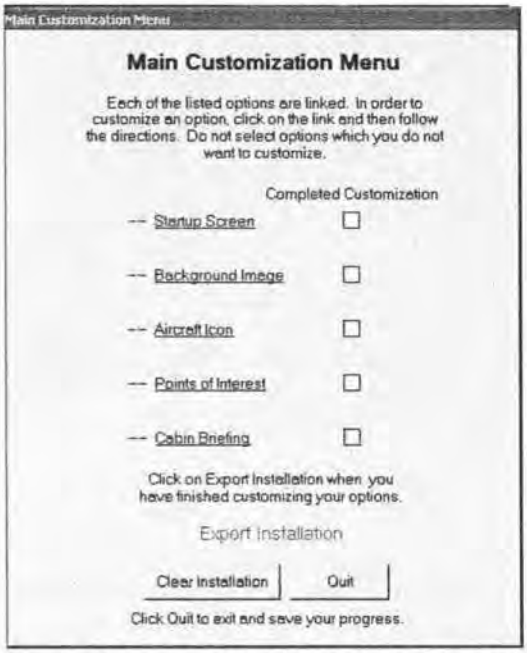
Main Customization Menu
Main Customization Menu
Each of the listed options are linked. In order to customize an option, click on the link and then follow the directions. Do not select options which you do not want to customize.
Completed Customization
-- Startup Screen
-- Background Image
-- Aircraft Icon
-- Points of Interest
-- Cabin Briefing
Click on Export Installation when you have finished customizing your options.
Export Installation
Clear Installation
Quit
Click Quit to exit and save your progress.

Figure 26 Main Menu After Clear Installation

10. APPENDIX

10.1. How to Meet Custom Startup Screen and Background Screen Requirements

This procedure describes how to best create a custom startup screen or background screen to match RosenView's 640x480 screen resolution.

The example procedure utilizes Photoshop. If Photoshop is not accessible, other graphics programs may be used, or download a free trial of Photoshop from the Web (www.adobe.com/products/photoshop/main.html select **tryout** under **downloads** in the left-side column and download Photoshop CS2).

While RosenView can take any image and expand or shrink it to make it fit the required format, it does not produce good results unless the image is close to a 640x480 screen resolution.

For best results, complete the following steps:

1. The images to be used in the screen may need to be opened and saved in a different file format so that it can be placed later.
   a. To save image(s) in a proper format, open the image(s) with Photoshop, click **File→Save As...** and save the image as an .EPS file; close the file.
2. Select **File→ New...** to create a new file.
3. Change the settings in the new file as directed in the image below:

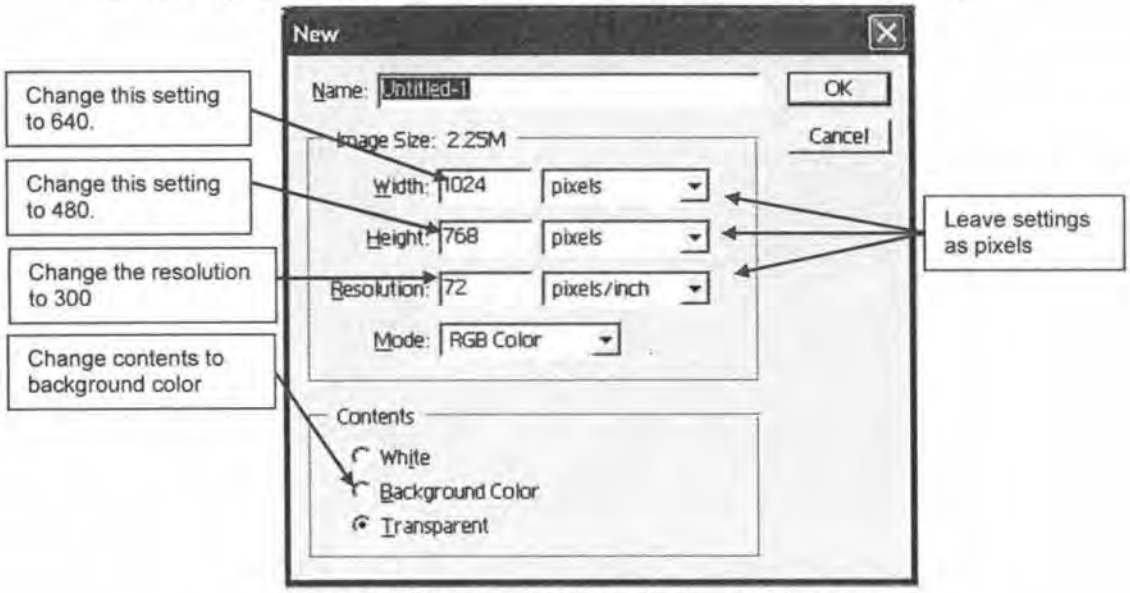

Figure 27 Change settings for the new startup screen

4. Click **OK** and the new file will open; select **View→Fit on Screen** in the main toolbar.
5. Select **File→Place...**
   a. Browse for and select an image for the custom screen, and then click on **Place**.

6. Size the image and locate it as desired on the 640x480 background.
   a. To size the image, click on it, select **edit→transform→scale**, and click on the corner and drag to scale as desired; for a background screen, scale the image such that it fills the entire space.
   b. To move the image, click and hold the mouse on the image and move it by moving the mouse.
7. Continue to add images, change background colors, etcetera until the screen appears as desired.
8. Select **File→Save As...** and then save the file format as a .jpg, .gif, or .bmp file; remember the file location to select it later in the RosenView customization process.
9. Close the Photoshop file and exit Photoshop; save the original Photoshop file as desired when closing.

10.2. How to Meet Custom Points Of Interest (POI) and Aircraft Icon Size Requirements

1. Open the image desired for the POI or custom aircraft icon.
2. Select **Image→ Image Size...** and look at the pixel dimensions in the top portion of the Image Size menu screen.
3. Whichever has the highest pixel size (height or width), set that dimension to 40 for an aircraft icon, or 16 for a POI icon.
4. Increase the resolution as possible; if the file document size is reduced by half, the resolution setting can be doubled.
   For example, if the file document size were changing (due to changing the pixel size) from 4 inches to 2 inches, an image with 72 resolution could be doubled to 144. If it were changing from 4 inches to 1 inch the resolution could be quadrupled to 288.
5. Click **OK**.

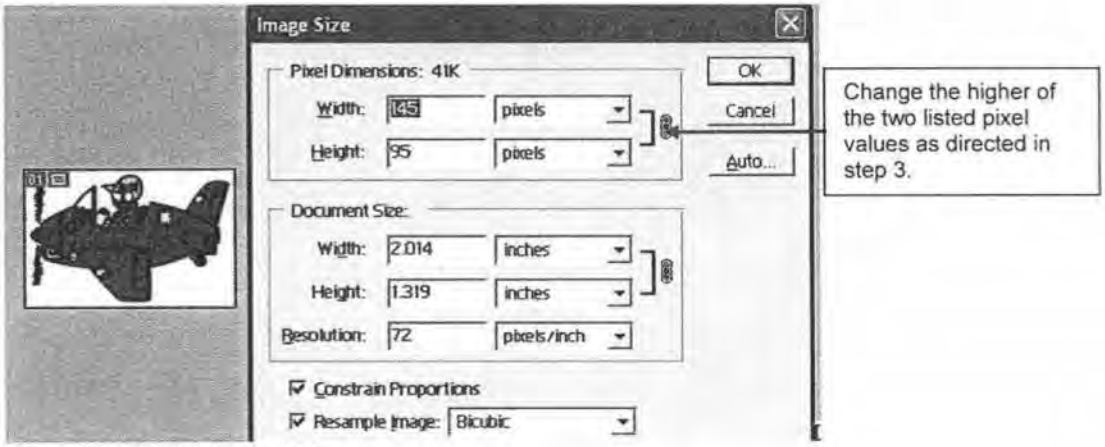

Figure 28 Height Set to 480

6. Select **File→Save As...** and then save the file format as a .jpg, .gif, or .bmp file; remember the file location to select it later in the RosenView customization process.
7. Close the Photoshop file and exit Photoshop; save the original Photoshop file as desired when closing.